

## Seismic and electromagnetic observations associated with the Ms8.0 Wenchuan earthquake

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The Ms8.0 Wenchuan earthquake, which struck Wenchuan County, Sichuan Province, China on May 12, 2008, is one of the most catastrophic earthquakes occurred recently. Although the geophysical network around the epicentral region till the occurrence of the Wenchuan earthquake is not dense enough, the retrospective investigation of geophysical data in and around the epicentral region would be helpful for strengthening the understanding of the seismogenic process of the Wenchuan earthquake.

This paper summarized some preliminary results of the retrospective investigation based on the seismic and electromagnetic data in and around the epicentral region before the mainshock and during its aftershocks. The spatio-temporal investigation of the seismicity changes indicated that there is an intermediate-term seismic quiescence around the epicenter during 2006-2007, comparing with the background seismicity in the investigated region. The electromagnetic data also showed some anomalous changes (including co-seismic electromagnetic changes during some aftershocks of the Wenchuan earthquake). Although further work is definitely required to enhance the reliability of the relationship between the above seismic and electromagnetic changes and the seismogenic process of the Wenchuan earthquake, the above preliminary results would provide some useful information for the related study and stimulate further validation study on earthquake precursors.

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